

CLAIMS

1. A method of transmitting data in packets in real time between a network and a mobile radiocommunication terminal over a plurality of multiframes each including a given number of blocks, which method is characterized in that it dynamically allocates or attributes to the terminal or to each terminal concerned one or more dedicated uplink and/or downlink transmission signaling and/or control blocks independently of and separately from blocks allocated to the transfer of data.

2. A method according to claim 1, characterized in that it employs a fixed allocation of blocks to a multiframe or a set of multiframes for transmitting signaling and/or control messages for the entire duration of a call or a given transmission sequence.

3. A method according to either claim 1 or claim 2, characterized in that the network reatributes the dedicated block or blocks allocated to signaling and/or control during a call or during a given transmission sequence of a call.

4. A method according to any of claims 1 to 3, characterized in that the attribution of control blocks associated with packet transmission consists of allocating one uplink and/or downlink transmission block per multiframe, identified by its number in said multiframe, on the same time slot as or a different time slot from the traffic channel.

5. A method according to any of claims 1 to 3, characterized in that one or more control blocks associated with packet transmission is or are attributed by indicating a multiframe number and one or more uplink and/or downlink transmission block numbers in said multiframe in the same time slot as or a different time slot from the traffic channel.

6. A method according to any of claims 2 to 5, characterized in that, if the control channel is shared between mobile terminals, an indicator or an identification field is provided in the control block for identifying the mobile station sending or receiving multiplexed uplink and/or downlink transmission signaling blocks on said channel.

7. A method according to any of claims 2 to 5, characterized in that, if the control channel is shared between mobile stations, downlink

transmission control blocks transmitted from the network to a given mobile terminal incorporate an identifier for identifying the destination mobile terminal of the block containing said signaling or control message.

- 5 8. A method according to any of claims 1 to 7, characterized in that transmission is to the GERAN standard.
- 10 9. A cellular radio telecommunication network including geographically distributed fixed stations and mobile terminals that can communicate with each other for uplink transmission from the mobiles to the network and/or downlink transmission from the network to the mobiles, said [sic] data being transmitted in real time in packets over multiframe each formed of a given number of blocks and each of which can be shared between mobile terminals, which network is characterized in that each terminal is allocated or attributed one or more dedicated uplink and/or downlink transmission signaling and/or control blocks, independently of and separately from blocks allocated to the transfer of data.
- 15 10. A network according to claim 9, characterized in that dedicated signaling and/or control blocks are allocated or attributed in accordance with any of claims 2 to 8.
- 20 11. A cellular mobile radiocommunication terminal, optionally forming part of a network according to either claim 9 or claim 10, characterized in that it is adapted to implement the real time data transmission method according to any of claims 1 to 8.